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## Site 39 Inland Ranges Habitat Restoration Status Update

October 27, 2023

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### Monitoring

- Plant survivorship monitoring was conducted at HAs 26, 34, and 37 in September 2023
  - Restoration plants are monitored for survivorship in years 1, 2, and 3 after planting occurs
- Fall Photo point monitoring was completed on October 10, 2023





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### Caretaker of Previous HA

- In July 2023, Burleson biologists removed 119 trees from HAs 19, 26, 27, 27A, and 34 with an electric chainsaw. Tree species removed include 116 Monterey pines (*Pinus radiata*) two Monterey cypresses (*Hesperocyparis macrocarpa*), and one golden wattle (*Acacia longifolia*).
- A small amount of glyphosate-based herbicide was applied to cut stumps, except when trees were small enough for hand removal of roots.
- All trees removed were encroaching on maritime chaparral habitat within or bordering open areas within the boundary of Site 39's HAs.
  - Monterey pines shade out open sandy areas in maritime chaparral habitat where germination of rare annual plant species such as Sand Gilia (*Gilia tenuiflora ssp. arenaria*), Monterey spineflower (*Chorizanthe pungens var. pungens*), and Seaside bird's beak (*Cordylanthus rigidus ssp. littoralis*) are known to occur.
  - A layer of Pine needles on the soil surface will lower soil pH and act as a chemical inhibitor to plant germination (allelopathy)
- Burleson biologists continue to manually remove hundreds of small occurrences of Pampas grass (*Cortaderia sp.*), iceplant (*Carpobrotus sp.*), and Monterey cypress seedlings while performing other work at HAs 26, 27A, 28, 34, 36, and 37.





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### **Erosion Control Repairs at HAs 26, 27A, 28, 34, and 37 (Sept-Oct 2023)**

- Installed 24 straw wattles (600 linear feet)
- Installed 1400 square feet of coir fabric
- Completed 400 linear feet of rill repair
- Maintained 200 linear feet of water bars



### **Data Management and Analysis**

- We continue to manage 2023 Monitoring Data
- Survivorship monitoring data analysis is in progress

### **Technical and Annual Reports**

- The Draft Third Quarterly report was submitted on October 16, 2023
- We continue to make progress on the Habitat Restoration Annual Report

### **Community Involvement Workshop/Open House**

- Two Burleson biologists tabled at the Community Involvement Workshop on July 15, 2023
- Burleson prepared an updated slideshow with spring 2023 photo point photos highlighting restoration progress at Site 39 HAs